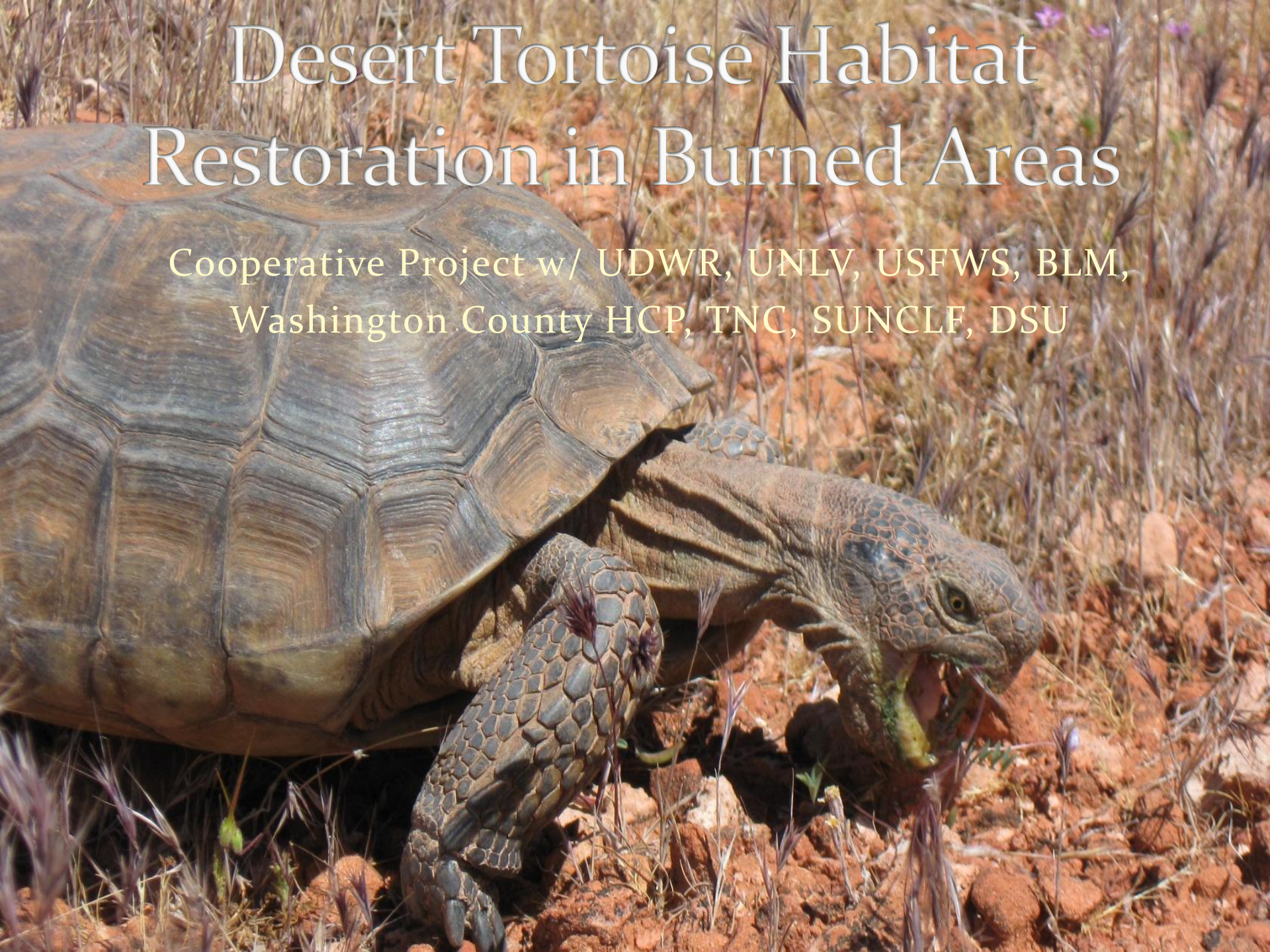


Desert Tortoise Habitat Restoration in Burned Areas

Cooperative Project w/ UDWR, UNLV, USFWS, BLM,
Washington County HCP, TNC, SUNCLEF, DSU



Restoration Polygons

Source: Esri, DigitalGlobe, GeoEye, USDA, Aerial, Getmapping, Aero

0 2 4 8 Miles

Legend

- Roads
- Restoration Polygon
- Red Cliffs NCA
- Beaver Dam Wash NCA

0 2 4 8 Miles



Red Cliffs NCA

- Desert tortoise critical habitat
- Previously burned
- Low density of native shrubs
- High density of invasive plants
 - Cheatgrass
 - Red Brome
 - Mediterranean Grass
 - Filaree
 - Russian Thistle



Beaver Dam Wash NCA

- Desert tortoise critical habitat
- Previously burned
- Low density of native shrubs
- High density of invasive plants
 - Cheatgrass
 - Red Brome
 - Mediterranean Grass
 - Filaree

Preplanting Surveys, April 2016



Photo by J. Kellam, BLM

Native Seeds, Locally obtained



Containerized Plants at UNLV

Seedling establishment



Young seedlings moved out of greenhouse.



Seedlings in shade structure.

Photos by D. Devitt, UNLV

Species List

- White Bursage
- Creosote
- Brittlebush
- Globe Mallow
- Astragalus sp.
- Muhly grass
- Galleta grass

Containerized plants at UNLV

Seedlings in Greenhouse



Outdoor Shade Structure



Photos by D. Devitt, UNLV

Containerized Plants:



- UNLV will deliver 10,000 plants on Nov 2nd & 14th.
- BLM hired ACE crews:
 - Individual plant cages
 - Plantings: Nov 2nd-9th & 14th-21st
- Public volunteer opportunities thru SUNCLF and TNC
- UNLV (S. Abella) designing monitoring plan to determine success rates & cost effective restoration